WHAT IS CLAIMED IS:

Somethod of producing a container comprising the steps of:

forming a container in a forming device,

transferring said container to an environmentally controlled area to maintain a predetermined cleanliness level, and

cleaning said container.

The method of claim 1, further comprising:

enclosing said container in a second container, and

sterilizing said container.

- 3. The method of claim 1, wherein said container is formed from glass and said method comprises forming said container in a glass forming device and heating said container to an annealing temperature to simultaneously anneal and clean said container to form said container.
- 4. The method of claim 1, further comprising filling said container with a desired substance and coupling a closure member to said container to close said container.

- 5. The method of claim 1, comprising enclosing said forming device in a locally controlled area to maintain a predetermined cleanliness level.
- 6. The method of claim 1, wherein said container is a syringe barrel and said syringe barrel is formed from glass or plastic.
- 7. The method of claim 6, comprising the steps of applying a tip cap to close a first end of said syringe barrel, filling said syringe barrel with a substance, applying a stopper to a second end of said syringe barrel to form a prefilled syringe.
- 8. The method of claim 6, further comprising the step of directing a stream of filtered air to said syringe barrel in said environmentally controlled area to remove particulates from surfaces thereof to clean said syringe barrel.
- 9. The method of claim 8, wherein said stream of air comprises ionized air.
- 10. The method of claim 1, wherein said container is a glass syringe barrel and said method comprises forming said syringe barrel by heating a glass tube to a temperature of about 760°C to 1100°C.

- 11. The method of claim 10, further comprising annealing said syringe barrel at a temperature of at least about 560 °C.
- 12. The method of claim 1, wherein said environmentally controlled area maintains a cleanliness level of about Class 100.
- 13. The method of claim 1, wherein said environmentally controlled area comprises at least one housing assembly having an air blower and a HEPA filter coupled to said air blower to filter air entering said at least one housing assembly.
- 14. The method of claim 13, wherein said at least one housing assembly is maintained at a positive internal pressure to prevent unfiltered air from entering said housing assemblies.
- 15. The method of claim 6, further comprising applying a coating of a lubricant to an inner surface of said syringe barrel.
 - 16. The method of claim 10, wherein said forming step comprises heating a first end of a glass tube to a temperature whereby said glass tube is pliable and shaping said first end to form a flange extending substantially radially outward from a center axis of said glass tube.

- The method of claim 16, further comprising heating a second end of said glass tube to a temperature whereby said glass tube is in a pliable state and shaping said second end for receiving a carmula needle.
- The method of claim 1, further comprising filling said container with a substance.
- A method of producing prefillable glass syringe barrel assemblies comprising the steps of:

forming a plurality of clean syringe barrels in a glass forming device for shaping a cylindrical glass tube into syringe barrels having a first open end for receiving a syringe plunger and a second open end for discharging contents from said syringe barrels;

annealing said glass syringe barrels at a temperature of at least 500°C; and

immediately transferring said syringe barrels to at least one housing assembly for maintaining a predetermined cleanliness level

The method of claim 19, further comprising coupling at least one syringe component to said syringe barrels to form a plurality of syringe barrel assemblies, forming an array of syringe barrel assemblies in said at

least one housing assembly, placing said array in a container and closing said container to form said syringe barrel assemblies.

- 21. The method of claim 20, wherein said forming step comprises supplying a cylindrical glass tube to said forming device and heating a first end of said glass tube to a temperature whereby said glass tube is pliable and forming a flange about said first open end and heating a second end of said glass tube to a temperature whereby said glass tube is pliable and forming a tip at said second end.
- 22. The method of claim 21, wherein said first and second ends of said class tube are heated to a temperature of about 760°C to 1100°C.
- 23. The method of claim 21, further comprising annealing said syringe barrels by heating to at least about 560°C.
- 24. The method of claim 20, further comprising the step of cleaning said syringe barrels in said at least one housing assembly prior to forming said array.
- 25. The method of claim 24, wherein said cleaning step comprises directing a stream of filtered, ionized air onto said syringe barrels to remove particulates from surfaces thereof.

- 26. The method of claim 20, wherein said at least one housing assembly includes an air blower and a HEPA filter coupled to said air blower to filter air entering said housing assembly and maintain a cleanliness level of about Class 100.
- 27. The method of claim 19, wherein said at least one housing assembly is maintained at a positive internal pressure to prevent unfiltered air from entering said housing assembly.
- 28. The method of claim 20, further comprising transferring said syringe barrels to a second housing assembly and applying a coating of a lubricant to an inner surface of said syringe barrels prior to forming said array.
- 29. The method of claim 28, further comprising transferring said syringe parrels to a third housing assembly and packaging said syringe barrels while in said third housing assembly.
- 30. The method of claim 19, wherein said forming device is enclosed in a housing assembly for maintaining a predetermined cleanliness level.

- The method of claim 30, wherein said housing assembly enclosing said forming device maintains a cleanliness level of about Class' 100.
- The method of claim 19, wherein said syringe barrels are immediately transferred to said at least one housing assembly after forming to maintain a predetermined cleanliness standard.

A method of producing a filled syringe comprising the steps of:

forming a plastic syringe barrel in an injection molding machine, said syringe barrel having a cylindrical side wall, an open proximal receiving end and a frustoconically shaped outlet nozzle at its distal end;

transferring said syringe barrel, without any additional cleaning or sterilization, into an environmentally controlled area to maintain a predetermined cleanlines level;

directing a stream of filtered air toward said syringe barrel in said environmentally controlled area to remove particles from surfaces thereof to clean said syringe barrel;

delivering a tip cap to said environmentally controlled area;

air cleaning said tip cap in said environmentally controlled area;

assembling said tip cap to said outlet nozzle of said syringe barnel to close said outlet nozzle;

filling said syringe barrel with a substance through its open proximal end;

delivering a stopper to said environmentally controlled area;

inserting said stopper into said open proximal end of said barrel to form a prefilled syringe; and

removing said prefilled syringe from said environmentally controlled area.

- 34. The method of claim 33, further including the step of packaging said prefilled syringe.
- 35. The method of claim 33, further including the step of sterilizing said prefilled syringe.
- 36. The method of claim 33, further including the steps of sterilizing said prefilled syringe followed by the step of packaging said prefilled syringe.

37. A method of producing a filled syringe comprising the steps of:

forming a plastic syringe barrel in an injection molding machine, said syringe barrel having a cylindrical side wall, an open proximal receiving end and a frustoconically shaped outlet nozzle at its distal end;

transferring said syringe barrel, without any additional cleaning or sterilization, into an environmentally controlled area to maintain a predetermined cleanliness level;

directing a stream of filtered air toward said syringe barrel in said environmentally controlled area to remove particles from surfaces thereof to clean said syringe barrel;

delivering a stopper in said environmentally controlled area;

inserting said stopper into said open proximal end of said syringe barrel to close said proximal end;

filling said syringe barrel with a substance through its outlet nozzle;

delivering a tip cap to said environmentally controlled area;

air cleaning said tip cap in said environmentally controlled area;

assembling said tip cap to said outlet nozzle of said syringe barrel to form a prefilled syringe; and

removing said prefilled syringe from said environmentally controlled area.

- 38. The method of claims 37, further including the step of packaging said prefilled syringe.
- 39. The method of claims 37, further including the step of sterilizing said prefilled syringe.
- 40. The method of claims 37, further including the steps of sterilizing said prefilled syringe followed by the step of packaging said prefilled syringe.

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